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10/10

MISSION COVERAGE SUMMARY

25X1A

MISSION [REDACTED]

10 SEPTEMBER 1957



HTA-MCS-30-57

24 SEPTEMBER 1957

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CENTRAL INTELLIGENCE AGENCY

OFFICE OF RESEARCH AND REPORTS

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CIA/RR-HTA

MISSION COVERAGE SUMMARY

Date of Photography 10 September 1957 Report No. HTA-MCS-30-57Date of Report 24 September 1957 Mission No. [REDACTED] 25X1A

WAC &	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time		Lat. N	Long. E					
[REDACTED]			48	46	USSR	F			Saratov-Astrakhan RR line
			48	46	USSR	F			Prob bombing range 33 miles NE of KAPUSTIN YAR; approx 100 bomb craters
			48	46	USSR	P			2 poss electronic tracking sites extending approx 7 1/2 miles NE of u/i installation connected with launching sites (see camera
									[REDACTED] 25X1D
			48	46	USSR	P			Double-fenced area with 2 poss missile-launching pads, one pad containing u/i object; 1,500 yards NW of launching area are 5 ware-
									house-type bldgs, 9 small bldgs, 1 prob water tower, and 23 vehicles within double-fenced area; 1 poss tower outside area (see camera 7. [REDACTED])
			48	46	USSR	P			2 prob double-fenced storage areas connected by road 25X1D
			48	45	USSR	P			SAM site with herring-bone pattern similar to sites around MOSCOW; YO-YO is also visible; 2 poss secured storage areas and additional facilities
			48	45	USSR	F			Prob test stand in small gully 5 miles S of KAPUSTIN YAR
			48	45	USSR	F			KAPUSTIN YAR; extensive new construction, RR yard, and u/i installation with 2 RR spurs E of town

SPB Form 10 (Revised)

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NOTE:

All exposure numbers are title numbers.

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		Time	Lat. N Long. E					
			48 51	USSR	F			Open-pit mining area; 3 large and several small pits N and NE of Ozero Inder (reported borax production here); many paths
			48 47	USSR	F			Pontoon bridge on marsh, near establishment with 3 large and numerous small bldgs; numerous tracks, continuing on next five exps
			48 46	USSR	F			Secured installation with 6 bldgs, 3 u/i small structures; 12 miles from a similar area on camera 8, [REDACTED] 25X1D
			48 46	USSR	F			SHUNGAY Sta on Saratov-Astrakhan RR; settlement with group of 4 large, 9 small bldgs in fenced area; open storage, 3 tanks; heavy tracking in all directions
			48 46	USSR	G			Poss electronic tracking site; straight road leads W into road network on exp [REDACTED] camera 25X1D
			48 46	USSR	G			Prob launching pad u/c at SE corner of triangular area, consists of a tower beside a block centered on a pad 200' square, several
								concrete revetments or entrances around pad with paved ramps to 2; 2 excavations in hexagonal areas each approx 1,000'
								from opposite corners of pad, with which they are connected by trenches which are poss tunnels or ramps u/c; fence with guard towers around center portion.
								fences around hexagonal areas; several revetments outside
			48 46	USSR	G			Prob square launching pad at NE corner of triangular area, similar to one u/c at SE end; with loop access roads and revetments or

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	Time	Lat. N	Long. E						
									entrances; underground components suggested by surface configuration and color tones and maximum security fences with guard
									towers (see camera 6, exps [REDACTED] 25X1D)
		48	46	USSR	G				Missile-launching complex with 2 prob launching pads at NE and SE corners of triangular area; network of paved roads and tracks
									linking secured storage area, prob instrument bldgs, support bldgs; (see camera 6, [REDACTED] and camera 8, [REDACTED] This entry summarizes 2 preceding entries
		48	46	USSR	G				Two adjacent maximum security areas north of triangular area; prob storage and administration 25X1D
		48	46	USSR	G				Maximum security area W of W corner of triangular area, with paved road leading through 2-level bldg approx 134' x 45'
		48	46	USSR	G				Secured bldg group with 6 large, several small bldgs, motor pool, tower, and stack; trench scars lead E across road to a maximum
									security area with 2 bldgs and u/i structure and E toward launching complex
		48	45	USSR	G				RR line from Stalingrad; Volga flood plain
		48	51	USSR	F				Much track activity and surface working, poss borax and salt recovery

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			Time	Lat. N Long. E					
[REDACTED]				48 47	USSR	G			Large bombing/missile range w/many craters and approx 10 circular ground zeros; 4 large squares w/smaller squares in center
				48 48	USSR	G			4 poss down-range stations 5 miles apart aligned in N/S direction, and a 5th station approx 12 miles east of this line; poss
									cable scars connect stations (see camera 7, [REDACTED]) 25X1D
				48 46	USSR	G			Two prob cable scars, one extending from down-range station near small pond, the other connected to E/W cable which parallels Saratov-
									Astrakan RR; both converge and run approx 25 miles to missile-launching site
				48 46	USSR	G			6 aiming points, 4 a/c silhouettes, 3 u/i a/c
				48 46	USSR	G			Missile-launching site u/c in large double-fenced area w/guard towers; one launching pad appears to be complete and another in early stages
									of construction; site served by rail and highway; many tracks and cable scars (see camera 7, exps [REDACTED]) 25X1D
				48 46	USSR	G			16 empty "U"-shaped revetments
				48 46	USSR	G			3 aiming points

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[REDACTED]			48	46	USSR	G			Poss missile launching site u/c, rail-served; several secured storage areas nearby
			48	46	USSR	G			4 Bulls, 4 Beagles, and 2 MIG-type a/c in open field 3 miles SE of Vladimirovka A/F
			48-18	46-10	USSR	G			Vladimirovka A/F; concrete runway approx 7,200' x 250' oriented NW/SE with GCA system; loop-type taxiway w/2 small parking aprons on
									either end of runway and 3 large parking aprons in center of taxiway; firing butt at end of taxiway extension w/2 hardstands
									SE of field; fenced maintenance and poss storage facility w/2 parking aprons within fenced area; 2 POL storage, 1 of which u/c; 1 large hangar-type bldg
									w/rail service through bldg; a/c: 8 Bulls, 36 Beagles, 4 Cabs, 1 Crate/Coach, 16 poss Flashlights, 6 Badgers, 8 MIG-type, 1 Colt, 2 prob
									Hares, 1 u/i swept-wing jet, 6 u/i s/e, 1 poss u/i s/e
			48-17	46-13	USSR	G			Akhtyuba A/F; natural surface runway approx 7,500' x 400'; a/c: 7 Beagles, 3 MIG-type; field poss used as auxiliary landing ground
			48	46	USSR	G			VLADIMIROVKA; extensive new construction; prob support facilities for missile-test area
			48	46	USSR	G			AKHTYUBA; RR classification yard and prob brickyard; 600' steel-truss RR bridge

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		Time	Lat. N	Long. E					
[REDACTED]			48	46	USSR	G			PETROPAVLOVSKIY; dock facilities on Volga River; barge-repair yard; poss salt mill; POL storage
			48	45	USSR	G			STARTTSA; agricultural village
			48	46	USSR	G			CHERNYY YAR; dock facilities on Volga River
			47	51	USSR	F			11 POL storage tanks; prob fish cannery on Ural River
			47	51	USSR	P			GURIEV; heavy clouds
			46-55	51-40	USSR	G			Petroleum port, sand island area; basin and dockage for two large tankers, one occupied by 290' tanker; POL storage with two 100'-diam
									tanks, two smaller tanks; poss pipeline leading NE
			46	51	USSR	G			Workers' settlements along Kurilkin River
			47	52	USSR	G			Workers' housing and salt working along Ural River
			46	51	USSR	G			Lighthouse on small bar

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	Time	Lat. N	Long. E						
		46	51	USSR	G				Approx 10 cargo-type boats
		47	51	USSR	G				Salt workings
		45	43	USSR	F				DIVNOYE; 6 large warehouse-type bldgs poss for grain storage; small RR yard; turn-around; approx 40 open grain-
									storage stacks adjacent to RR turn-around; 4 round storage tanks; 7 poss POL storage tanks (2 large, 5 medium)
		45	43	USSR	F				DERBETOVKA; a large area of the village has been abandoned
		44	43	USSR	P				PYATIGORSK; mining activity, u/i industry, storage facilities along RR, MTS (see camera 7, [REDACTED]) 25X1D
		44-03	43-01	USSR	F				Pyatigorsk A/F; (see camera 7, [REDACTED]) 25X1D
		47	44	USSR	G				KEKE BULUK
		46	43	USSR	G				BISLYURTA; prob RR line u/c, graded and drained
		45	43	USSR	G				Small u/i mining operation

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	Time		Lat. N	Long. E					
			45	43	USSR	G			VOZNESENSKOYE
			44	43 42	USSR	G			Pyatigorsk uranium mines; mines, spoil banks, and exploration trenches encircle Gora Beshtau and Gora Sheludivaya, NW of Pyatigorsk; new roads; new settlement of multiple-housing units u/c N of Gora Sheludivaya
			44	43	USSR	G			ZHELEZNOVODSK; RR spur and 3-track terminal
			44-03	43-01	USSR	G			Pyatigorsk A/F; sod landing area approx 1,700' x 1,800', can extend N or W; one terminal, 1 other bldg; 4 revetments; prob POL storage;
									a/c: 1 Colt, 7 u/i light conventional a/c (see camera 6, [REDACTED] 25X1D
			44	43	USSR	G			PYATIGORSK; RR station and yards, warehouse group, lumber storage area with bldg group u/c, two lime plants, quarry N of town
			43	43	USSR	G			Abandoned RR line; rails gone, most bridges out; former junction, exps [REDACTED] 25X1C [REDACTED] 25X1D
			43	43	USSR	G			Diversion dam and Ter canal
			47	45	USSR	G			TSAGAN-NUR and TUKTUNSK; poss salt workings

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		46	44	USSR	G				SARAKHA; poss salt workings
		46	44	USSR	G				KHARA-BULUK; MTS
		46	44	USSR	G				TROITSKOYE; MTS; storage facilities
		46	44	USSR	G				STEPNOY
		45	44	USSR	G				VAZDVIZHENSKOYE; mainly agricultural
		45	44	USSR	G				APANASENKOVSKOYE; mainly agricultural; MTS
		45	43	USSR	G				KAZGULAK; mainly agricultural
		45	43	USSR	G				STAVROPOL-KAV KAZSKIG
		45	43	USSR	G				MALYYE YAGURY; MTS; agriculture storage
		45	43	USSR	G				KAMBULAT; MTS; agriculture storage

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[REDACTED]			45	42	USSR	F			IPATOVO; 11 large warehouse-type bldgs used poss for grain storage; RR-served
			45	42	USSR	F			5 large warehouse-type bldgs east of KNIGINSKOYE; RR served
			45	42	USSR	F			KUGUL'TA
			45	42	USSR	F			Poss strip mining adjacent to the town of PELAGIADA
			45	42	USSR	G			6 underground storage tanks connected to new A/F u/c near MIKHAYLOVSKOYE; poss concrete plant for construction of A/F adjacent to
									POL tanks (see camera 7, exp [REDACTED] 25X1D
			45	41	USSR	F			Agricultural storage NW of MIKHAYLOVSKOYE
			45	41	USSR	F			1 large "H"-shaped institutional-type bldg u/c, and 9 large bldgs and 10 small bldgs; this area adjacent to Stavropol West A/F
			45	41	USSR	F			Agriculture storage west of STAVROPOL
			45	41	USSR	F			Poss small hydroelectric plant S of SENGILEYEVSKAYA

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		44	41	USSR	P				ARMAVIR; RR classification yard
		44-58	41-07	USSR	P				Armavir A/F; 2 POL storage areas, approx 16 hardstands, est 6,000' x 195' concrete r/w extensible at both ends, large parking apron, poss
									ammo storage, modified loop taxiway with 2 interlinks to r/w, poss firing butt, smaller loop on SW side of r/w with approx 12 hardstands, no a/c visible
		44	41	USSR	F				New RR and poss new pipeline between ARMAVIR and KONOKOVO
		44	41	USSR	F				Poss agricultural storage; 12 large warehouse-type bldgs adjacent to KAZ'MINSKOYE
		44	41	USSR	F				Agricultural town of BELOMECHETSKAYA with approx 7 warehouse bldgs (poss agricultural storage) S of town
		44	42	USSR	P				CHERKESSK; poss mining; 11 warehouse-type bldgs, poss agricultural storage
		44	42	USSR	F				Agricultural village with 5 poss tractors
		44	42	USSR	P				YESSINTUKI
		45	42	USSR	G				MIKOLINA BAIKA and SHVEDINO

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E			45	42	USSR	G			ELAGODAT NOYE and KONSTANTINOVSKOYE; approx 3 miles SW of ELAGODAT NOYE are 2 similar towers 1 1/4 miles apart
			45	42	USSR	G			KAMENNY; agricultural village, 1 grain elevator, 10 large warehouses, 4 small POL tanks
	25X1D		45-06	42-06	USSR	G			New A/F under construction 4 miles E of MIKHAYLOVSKOYE; runway oriented E/W will be concrete, approx 8,200' x 240' when completed; POL storage u/c with three tanks;
									fenced area approx 1 mile N of the field containing 17 barracks-type bldgs, 6 warehouse-type bldgs, and 3 equipment yards
			45	42	USSR	G			RR line from junction E of MIKHAYLOVSKOYE into STAVROPOL; several gaps in line
			45-02	42-01	USSR	G			Stavropol A/F; sod landing area 3,700' x 2,200', 1 terminal bldg, 4 service bldgs, 1 bldg u/c; a/c: 7 Colts, 10 Creeks, 1 u/i
									light a/c (see camera 6, exp [REDACTED] 25X1D
			45 45	41 42	USSR	G			STAVROPOL; RR terminal, yards and shops, new RR u/c leading SE and NE, POL and gas storage, industries and warehousing near RR terminal, several bldgs in
									city and new housing area on S border u/c, quarries or strip mines S of city with large u/i processing plant adjoining one
			45-01	41-53	USSR	G			Stavropol West A/F; a/c: 3 Creeks, 6 u/i light a/c, 1 u/i glider, 2 silhouettes; sod landing area 4,000' x 5,000'

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		44	41	USSR	G				TATARSKOYE; new highway leading S and RR line u/c leading W
		44	41	USSR	G				Nevinnomyssk Canal; tunnel section on exp 462, with two construction shafts still open
		44	41	USSR	G				NADZORNY on Kuban River; Canal Nevinnomyssk enters tunnel here, does not return to river as NL 37-12 of AMS Series N501 shows (see camera 8, 25X1D)
		44	41	USSR	G				Station and 4-track yard, Rostov-Baku RR
		44	41	USSR	P G				BOGOSLOVSKOYE; 4-track RR yard and warehouse group
		44	41	USSR	G				Nevinnomyssk Canal and diversion dam, Kuban River
		44-40	41-55	USSR	G				Nevinnomyssk A/F; concrete runway 3,200' x 260' u/c using prefabricated blocks; prob drainage u/c; construction-materials yards SE of
									A/F; present A/F 4,200' x 6,500', expansion poss to NE and NW; no a/c
		44	41	USSR	G				NEVINNOMYSSK; RR junction and Kuban River bridge, yards, shops, and locomotive repairs; warehouse area, POL and gas storage; several
									bldg groups u/c

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		44	42	USSR	G				GORA BYK uranium area NW of PYATIGORSK; approx 10 active mines
		44	42	USSR	G				Thermal or thermochemical processing plant NW of Gora Sheludivaya, with coal storage, thermal power plant with 2 stacks, battery
									of 8 small tanks, 2 cooling towers, 1 large and 2 smaller warehouse-type bldgs, 3 large monitor-roofed bldgs, and 5 others,
									all connected by overhead pipes or conveyors, and administration and support bldgs; area served by extension of RR branch line
		45	42	USSR	G				PETROVSKOY; mining; MTS; poss motor-vehicle repair; u/i industry; RR yard and poss RR shop; new construction
		45	42	USSR	G				SPITSEVSKOYE; mainly agricultural
		45	41	USSR	G				BESHAPAGIR; MTS, agricultural storage, mining
		44	41	USSR	G				High-pressure-head power plant or canal approx 3 miles SE of BOGASLOVSKOYE; also small transformer yard (see camera 7,)
		44	41	USSR	G				BOGASLOVSKOYE; mining; 25X1D mainly agricultural
		44	41	USSR	G				OL'GINSKOY; mining, u/i industry, storage facilities, approx 400' rail bridge

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		44	42	USSR	G				Rail. yard w/approx 130 cars
		44	42	USSR	G				KURSAUKA; rail. yard, u/i industry, poss storage area
		44	42	USSR	G				U/i fenced area
		43	42	USSR	P				Poss uranium mining; mines located south of YESSSENTUKI
		43	42	USSR	P				KIGLOVODSK
		43	43	USSR	P				3 power lines from PYATIGORSK to KYZBURUN PERVY
		43	43	USSR	F				ZOL'SKAYA
		43	43	USSR	F				MALKA
		43	43	USSR	F				KUBA
		43	43	USSR	P				KYZBURUN VTOROY and KYZBURUN PERVY; expansion is present in both towns

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[REDACTED]				43	43	USSR	P			BAKSAN, STARAYA KREPOST, and KYBURUN TRETIIY
				43	43	USSR	P			BAKSANENOK and KISHPER
				43	43	USSR	P			CHEGEM VTOROY and CHEGEM PERVY
				43	43	USSR	P			NAL'CHIK, VOYLAULN' ALEKSANDROVSKAYA, and NARTAN
				43	43	USSR	P			New u/i town NW of KAKHUN with a large industry serviced by RR facilities
				43	43	USSR	F			Poss abandoned or dismantled military camp east of ALTUD
				43	44	USSR	P			PROKHLADNYY; large grain storage, approx 43 prob grain stacks; poss motor vehicle repair shop; brick-yard and 2 prob agricultural
										storage aress (see camera 7, [REDACTED] 25X1D
				43	44	USSR	F			Prob MTS
				43	44	USSR	F			Highway bridge approx 320' long over Terek River from MQZDOK to PREDMOSTNY, with another bridge poss u/c nearby

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		43 43	44 45	USSR	F				PYATIGORSK-GROZNYI oil pipeline
		43	45	USSR	P				GORA-GORSKAYA; large oil field with numerous derricks and 4 large POL and 7 prob small POL tanks connected by pipelines to the PYATIGORSK-GROZNYI oil pipeline
		43	45	USSR	P				Prob pumping station with 2 large and approx 8 small POL storage tanks; pipeline connects with PYATIGORSK-GROZNYI oil pipeline, approx 7 miles south of VERKHNIY NAUR
		43	45	USSR	F				Prob MTS between MEKEN'-YURT and SAVEL'YEVSKAYA
		43-34	45-32	USSR	P				U/i A/F NE of KALINOVSKAYA; sod surface landing area approx 10,000' x 2,300'; open parking; a/c: approx 19 s/e fighters; no facilities observed
		43	45	USSR*	P				ZAGRADINA; oil field, poss connects to the PYATIGORSK-GROZNYI oil pipeline; approx 5 large and 4 small POL storage tanks
		43	45	USSR	F				Poss MTS approx. 2 miles NE of KALINOVSKAYA
		43	45	USSR	P				Approx 3 NM SE of Kalinovskaya on the Terek River is located a large oil field with numerous oil derricks, 6 large POL storage tanks and approx 16
									small POL tanks located in mouths of ravines

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		43	45	USSR	F				New canal u/c approx 10 miles E of KALINOVSKAYA
		43	45	USSR	F				Poss water-gate control system u/c on Terek River 10 miles SE of KALINOVSKAYA
		43	45	USSR	F				Poss Groznyy thermal power plant, served by RR
		43	45	USSR	P				Groznyy oil field; numerous derricks, equipment, open-pit storage, warehouses, misc workshops and numerous gathering POL storage tanks; <u>area extensively developed</u>
		43-22	45-38	USSR	P				Groznyy Northwest A/F; sod surface; approx landing area 9,500' x 3,600'; poss underground POL storage, poss ammo storage, small A/F
									facilities available; poss 8 unoccupied AA positions; a/c: 63 s/e (see camera 7, [REDACTED] 25X1D
		43	45	USSR	F				Groznyy; industrial town (see [REDACTED]) 25X1D
		43	45	USSR	F				Groznyy POL refinery complex; large thermal power plant, approx 50 underground POL storage tanks, approx 300 above-ground POL storage
									tanks, open-pit storage, large water reservoir and industries associated with POL refineries, approx 7 POL storage tanks u/c, approx 18 gas storage tanks, new
									housing construction area with extensive development (see [REDACTED]) 25X1D

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MISSION COVERAGE SUMMARY

Date of Photography 10 September 1957 Report No. HTA-MCS-30-57Date of Report 24 September 1957 Mission No. 25X1A

WAC &	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time	Lat. N	Long. E						
		43	45	USSR	F				New poss first class road u/c, west from GROZNY
		43	45	USSR	P				KRASNOARMEYSKOYE, GEKHI, VALERIK, KATYR-YURT, and NOVOSEL'SKOYE
		41	44	USSR	F				TBILISI; town and industrial complex; diversion dam, poss steel and machine plants, RR yards and shops, locomotive- and car-repair plant, poss
									machine-tool plants, poss asphalt and concrete plant, poss munitions storage, poss ordnance and machine plant, poss hydroelectric power plant across Kura River,
									approx 11 POL storage tanks (2 large and 9 small); poss military area, open storage, poss motor vehicle repair, prob radio station and air-
									frame plant; 2 prob communications installations w/numerous pole-type antennae within fenced areas; two 8-gun heavy AA emplacements (one *
									prob occupied); one 6-gun AA emplacement prob unoccupied, adjacent to communications installation; area under extensive develop-
		41-41	44-53	USSR	F				Tbilisi/Navtlug A/F; sod surface; landing area approx 5,000' long, 1,000' at widest, 620' at narrowest; approx 30-40 revetments,
									4 poss hangars, shop, and repair storage; no a/c visible (see camera 7, exp
		41	44	USSR	F				KODA; poss military camp and light a/c landing ground

25X1D

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Date of Photography 10 September 1957 Report No. HTA-MCS-30-57Date of Report 24 September 1957 Mission No. [REDACTED] 25X1A

WAC &	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time		Lat. N	Long. E					
[REDACTED]			40	44	USSR	P			KIROVAKAN; prob chemical plant, poss grain storage, RR yard, 2 power lines (see [REDACTED]) 25X1D
			40	44	USSR	P			Poss explosives storage, 6 large warehouse-type bldgs and 4 small bldgs in isolated double-fenced area SW of AMAMLU; u/i industry in town
			40	44	USSR	P			Poss military camp and training area 2 1/2 miles NW from VAGARSHAPAT
			40	44	USSR	P			Poss military camp and training area 1 mile south of VAGARSHAPAT
			40	44	USSR	P			ULUKHANLU; RR junction and RR yard; SW of YEREVAN
			43	44	USSR	G			PROKHALADNY; RR junction, 12-track yard, shops, locomotive repair, large open pit prob for clay or lime (see camera 6, [REDACTED]) [REDACTED] and camera 8, e [REDACTED] 25X1D 25X1D
			43	44	USSR	G			Dam and control works u/c on Terek River will augment supply to Imeni Lenina Canal
			43	44	USSR	G			Large storage area u/c; approx 60 revetted warehouse-type bldgs widely spaced en echelon, room for approx 20 more; on RR spur (see camera 8, [REDACTED]) 25X1D

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Date of Photography 10 September 1957 Report No. HTA-MCS-30-57Date of Report 24 September 1957 Mission No. [REDACTED] 25X1A

WAC &	Photo	Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
		Time		Lat. N	Long. E					
[REDACTED]				43	44	USSR	3			Prob pipeline pumping station (see camera 8, exps [REDACTED]) 25X1D
				43-44	44-40	USSR	G			Mozdok A/F; concrete EW runway 7,800' x 250', taxiway, and apron 4,800' x 250', all parallel, with connecting taxiways;
										firing butt; poss underground POL storage; motor pool; several small bldgs with at least 3 prob u/c; a/c: 50 Bulls (see camera 8, [REDACTED])
				43	44	USSR	G			MOZDOK; 8-track RR yard, warehouse and POL storage areas; ceramics plants near clay pits 25X1D
				43	45	USSR	G			Secured POL storage and prob pipeline pumping station; pipeline leads N & S (see camera 6, exp [REDACTED] and camera 8, [REDACTED]) 25X1D
										[REDACTED]
				43	45	USSR	G			ISHCHERSKAYA; RR station with 6-track yard and turning Y; pipeline crossing of Terek River u/c, appears to have deck for highway
				43	45	USSR	G			Oil field on summit and N slope of Khrebet Terskiy, 8 NM N of GROZNY; at least 40 derricks, with collecting tanks, access trails
				43-21	45-40	USSR	G			Groznyy North A/F; sod landing area approx 2,500' x 4,500'; 1 hangar approx 110' x 160', several small bldgs; a/c: 1 Creek, 6 poss Mules
				43-22	45-38	USSR	G			Groznyy Northwest A/F; sod landing area; end adjoining Groznyy North A/F shown [REDACTED] 25X1D

25X1D

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WAC 8	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time	Lat. N	Long. E						
		43	45	USSR	G				GROZNY; petroleum-refining complex covering approx 2 square miles; RR station with 26-track yard, shops, 2 round houses for locomotive
									repairs; industrial and warehouse-bldg groups (see [REDACTED]) 25X1D
		43-17	45-46	USSR	G				Groznyy East A/F; 2 parallel runways 6,400' long, 1 3,200' x 250' of concrete, 700' x 165' of prepared base and 2,500' x 150' of natural
									surface; the second of older, u/i surfacing material; a/c: 1 Beagle, 1 Creek, 24 Pagot/Frescos, 1 prob Mule, 1 prob Colt; south of field: 3
									hangars, 5 small bldgs, 1 8-gun AA battery; north of field: prob military hq with 6 large, numerous small bldgs, revetted storage, 1 motor pool
		43	45	USSR	G				South Groznyy oil field, wells, gathering tanks and related equipment; approx 20 small POL storage areas; field lies south of settle-
									ments along ridge
		43	45	USSR	G				One 8-gun AA battery approx 3 NM S of center of GROZNY and 1 NM SE of NOVYYE ALDY village
		43-11	45-44	USSR	G				Groznyy/Goyty A/F; located 8 NM S of GROZNY; sod landing surface approx 10,000' x 4,000' to 6,000'; a/c: 14 Creeks, 44 prob Max;
									POL storage, 1 large and several small bldgs, equipment sheds; no hangars

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WAC 8	Photo	Ident.	Coordinates		Country	Qual.	Photo Point	Ref.	Description
		Time	Lat. N	Long. E					
			41	44	USSR	G			Defences of Tbilisi perimeter; 8-gun AA battery located E of reservoir; 6-gun AA batteries 2.4 and 3.0 NM N of Tbilisi/Orkhevi A/F;
									4-gun battery 1 NM E of last; 6-gun battery 1.4 NM S of reservoir
			41-40	44-57	USSR	G			Tbilisi/Orkhevi A/F; NW-SE concrete runway 8,000' x 200'; taxiways and hard-stands; 3 lattice towers in line with and approx 2,700',
									3,500', and 3,900' E of, runway; terminal bldg 400' x 60' and 100' u/c; 2 hangars, 135' x 220' and 100' x 100'; equipment
									shed, 4 other bldgs, 1 with poss radar on roof; small fenced bldg in line with and approx 1,500' W of runway; a/c: 12 Cabs,
									9 Coach/Crates, 4 Mules, 5 Creeks, 1 Colt, 3 Hounds; radar on hill N of terminal bldg; 8-gun AA battery S of field; revetted explosives
									and other storage in maximum security area W of field
				41	44	USSR	G		Communications station; consists of bldg approx 45' x 65', with 4 towers, and small bldg, with 2 towers, in secured area
									approx 3 NM NE of Tbilisi/Orkhevi A/F and 4 NM NW of Tbilisi/Vaziani A/F
				41-41	44-53	USSR	G		Tbilisi/Navtlug A/F; E half of natural surface landing ground; no a/c or bldgs; revetments old, not maintained

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WAC 8	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time	Lat. N	Long. E						
		41	44	USSR	G				TBILISI; RR junctions and associated industrial area at E end of city; pipelines and wire lines leading E [REDACTED] 25X1D
		41-38	45-02	USSR	G				Tbilisi/Vaziani A/F; W end of runway (see camera [REDACTED]) [REDACTED] 25X1D
		41-39	44-56	USSR	G				Tbilisi/Soganlug A/F; concrete runway 5,800' x 250'; taxiways and hardstand; no hangars; 1 check-out shed; a/c: 2 Cabs
		41	44	USSR	G				RUSTAVI; W side along river; bridge and concrete dam; water works and settlement W of river (see camera 8, [REDACTED]) (Note: area [REDACTED]) 25X1D
									reported on some maps as poss Agtaglya A/F, W of RUSTAVI, is cultivated land)
		41-32	44-50	USSR	G				Tbilisi South A/F site; bombing range with 4 bombing targets; one group of 10 plane silhouettes, 1 group of approx 15, with numbers
									beside most; other numbers, also the Cyrillic letters KP; looks very clean, without craters
		41-28	44-47	USSR	G				Tbilisi/Sandar A/F; concrete runway NW-SE 3,200'; second runway, oriented NE-SW, has 3,200' x 250' concrete surface plus 3,200' x 250'
									natural surface extension; 10 misc bldgs, 1 with a mast; equipment sheds, motor pool; POL storage; 1 poss firing butt; a/c:
								63 Fagot/Frescos, 2 Creeks, 1 s/e a/c u/i	

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WAC &	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time		Lat. N	Long. E					
			41	44	USSR	G			SADAKHLO; RR shipping point for quarry or open pit mine approx 4 NM W of RR
			41	44	USSR	G			BENDIK; mining activity E of town, prob explosives storage, two warehouse-type bldgs within fenced area, new construction activity
			40	44	USSR	G			U/i town NE of AKORI, u/i industries and storage, 4 POL tanks
			40	44	USSR	G			TSATER; 2 shaft mines and large ore-processing plant 2 miles N of town, strip mine E of town, flood-control dam on the Agzy-
									Bezu River diverting water to power plant on Bambah River S of TSATER, transformer substation for electrified RR, RR bridge 220' long
			40	44	USSR	G			KIROVAKAN; large prob chemical plant; military barracks area in center of town with 15 barrack-type bldgs, 30 warehouse-type
									bldgs, 43 prob trucks in area; military barracks area in the W end of town with 7 barrack-type bldgs, 9 warehouse-type bldgs, 30
									artillery pieces, 25 prob trucks; power line extending from TSATER to chemical plant (see camera XXXXXXXXXX 25X1D)
			40	44	USSR	G			Prob sawmill SE of VARTANLU
			40	44	USSR	G			Military training area in mountains S of KIROVAKAN

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WAC 8	Photo Ident.	Coordinates		Country	Qual.	Photo Point	Ref.	Description
		Time	Lat. N Long. E					
[REDACTED]			40 44	USSR	G			Gyumush hydroelectric plant 14 miles N of YEREVAN; 5 penstocks connect with plant and 6 high-tension lines lead out of trans-
								former yard; smaller hydroelectric plant immediately [REDACTED] 25X1D
		40-18	44-34	USSR	G			Yerevan/Yegvard A/F; 2 graded earth runways each 3,400' x 260' oriented N/S and NE/SW, loop taxiway and 11 revetments; no
								other facilities visible; a/c: 1 airship; prob communications center with 1 large transmitting bldg and 2 antennae NE of A/F; prob cable near river runs
								W to a large bldg 400' long by 150' at the widest part; small hydroelectric plant. [REDACTED] 25X1D
		40	44	USSR	G			Communications center; 12 bldgs and 2 tall antennae within double-fenced area with guard tower adjacent to military camp (see [REDACTED]) 25X1D
		40	44	USSR	G			Military camps on N edge of YEREVAN; largest camp contains approx 75 barracks and warehouse-type bldgs, 40 artillery pieces, and 180
								vehicles; radio station N of camp with 6 bldgs and 1 antenna within fenced area
		40	44	USSR	G			YEREVAN; hydroelectric plant; 4 penstocks connect to plant, and 7 power lines extend from transformer yard; aluminum plant,

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WAC B	Photo Ident.	Coordinates		Country	Qual.	Photo Point	Ref.	Description
		Time	Lat. N Long. E					
								copper rolling mill, synthetic rubber and chemical plant, underground POL storage, electrical machine plant, numerous
								other industries, storage and rail classification yards; military camp in center of town with 55 barracks or warehouse-type bldgs and 100 vehicles;
								communications center E of town with 1 transmitter bldg and 1 tall lattice-type tower approx 500' high within fenced area 480' x
								560'; 2 large highway bridges 1,100' x 90' and 620' x 95' located in city
			40-07 44-28	USSR	G			Yerevan A/F; hard-surface earth runway 7,200' x 200'; 2 hangars, terminal bldg, shop area, POL storage, 36 revetments, ammo
								storage; hard surface fighter strip 6,200' x 150' parallel to earth runway; a/c: 2 Crates, 1 Coach, 3 Cabs, 2 Colts, 1 Creek, 28
								Frescos, 1 u/i a/c
			43 43	USSR	G			NOVO-PAVLOVSKAYA; grain storage, u/i industry, poss mining activity, MTS with poss repair facilities
			43 43	USSR	G			New dam, power plant, and canal system in the ORLOVSKIY-PEGUSHIN area; new construction; MTS
			43 43	USSR	G			SOLDATSKAYA; large MTS, many trenches and empty revetments, rail yard approx 2 miles NE of town, u/i industry and poss storage

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WAC B	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time		Lat. N	Long. E					
									near rail yard
			43	43	USSR	G			PROKHLADNY; locomotive repair shop, poss grain storage and flour mill, many trenches (see camera 7, <u> </u> 25X1D
			43	44	USSR	G			Poss hydroelectric plant
			43	44	USSR	P			Pumping station with 3 large tanks and several bldgs in fenced area approx 5 miles from Mozdok A/F (see <u> </u> 25X1D
			43	44	USSR	G			1 poss Bull in flight
			43	44	USSR	P			Large fenced storage area w/approx 60 bldgs, approx 5 miles from Mozdok A/F <u> </u> 25X1D
			43-47	44-34	USSR	P			Mozdok A/F (see camera 7, <u> </u> 25X1D
			43	46	USSR	F			GUDERMES; rail yard w/poss locomotive-repair facilities
			43-24	46-06	USSR	F			Gudermes A/F (far oblique); NE/SW poss black-top runway approx 6,000' x 150'; a/c: 21 MIG-type, 4 poss u/i
			41	45	USSR	F			Bridge across Iora River, approx 4,800' long

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WAC &	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time	Lat. N	Long. E						
		41	45	USSR	G				Power plant; canal feeding water to plant winds along base of mountains and in several cases tunnels through mountains
		41	45	USSR	G				Poss military camp with approx 200 vehicles
		41	45	USSR	G				Two bridges, each approx 500' long, across Iora River
		41	45	USSR	G				Poss military camp and training area; much activity, several gun positions (AA and field artillery) which appear
									empty; new construction
		41-42	45-10	USSR	G				Tbilisi/Sartichala A/F; appears abandoned, poss asphalt runway approx 3,000' x 150', 23 empty revetments, no a/c
		41-38	45-02	USSR	G				Tbilisi/Vaziani A/F; NW/SE concrete runway approx 7,200' x 150', concrete taxiway w/approx 60 hard-stands and 2 parking areas
									130' x 60', 2 large hangars; a/c: 13 Beagles, approx 74 MIG-type, 5 Hares, 2 poss u/i; POL storage area 3 NM N of A/F; double-fenced
									poss ammo area 2.5 NM N of A/F (see camera 7, exp 25X1D
		41	45	USSR	G				Large fenced communications center SE of RUSTAVI contains large number of pole-type antennae and large communication bldg in

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WAC 8	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time		Lat. N	Long. E					
[REDACTED]									center of area (see [REDACTED] 25X1D
			41	45	USSR	G			RUSTAVI; complex, metallurgical works, nitrogen plant u/c, thermal power plant (see camera 7, [REDACTED] 25X1D
			41	45	USSR	G			Krug DF; approx 4 NM S of RUSTAVI communications center
			41	45	USSR	G			Hydroelectric power plant at base of hill; canal feeding plant runs along base from dam approx 2 NM away
			41	45	USSR	G			Poss mining activity
			40	44	USSR	G			Hydroelectric development, including diversion canal, reservoir, penstock, power plant, power line (see [REDACTED] 25X1D
			40	44	USSR	G			RR construction
			40	44	USSR	G			Industrial plant poss u/c
			40	44	USSR	G			Secured communications installation (see camera 7, [REDACTED] 25X1D
			40-04	53-24	USSR	P			Yangadzha A/F; concrete r/w approx 6,400' x 140', extensible at both ends; taxiway SW of r/w with 2 connecting access taxi

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WAC 8	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time	Lat. N	Long. E						
									strips; arrow-shaped alert apron at each end of r/w; POL storage; firing butt; no hangars visible; served by both RR and hwy; approx
									15 barrack-type bldgs; a/c: 28 u/i fighters
		40	53	USSR	G				New u/i installation 6 miles E of KRASNOVODSK; extensive strip mining serviced by RR and hwy
		40	53	USSR	F				Approx 17 a/c silhouettes, (10 bomber and 7 fighter type)
		41	52	USSR	G				KARA-BOGAZ-GOL; town appears to be abandoned; approx 10 bldgs still standing, 4 appear partially sand covered; 2 boats approx 50'-
									60' long
		40	53	USSR	G				KRASNOVODSK; RR terminal and dredged harbor, with 4 large piers with track; 1,350' wharf with 6 large cranes; 1 265' ship, 2
									230' ships, and approx 20 smaller ships in port; RR yards, shops, and locomotive repair (see WAC 339, camera [REDACTED] 25X1D)
		40	52	USSR	G				KRASNOVODSK; petroleum refinery and tank farm with RR siding; underground storage adjoining on NE
		40-03	52-59	USSR	G				Krasnovodsk A/F; runways: N-S, 8,200' x 265' concrete; N-S, 3,200' x 265' concrete; old E-W runway used as taxiway; unpaved taxiways

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WAC &	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time		Lat. N	Long. E					
[REDACTED]									with 72 revetted parking slots, 20 hardstands without revetments, ammo storage area and GCA system; POL storage and a/c repair shop;
									a/c: 2 Bulls, 2 Beagles, 20 Flashlights, 42 MIG-type, 2 Cabs, 1 Colt, 7 Creeks, 1 Hound, 10 Hare, 7 u/i s/e; also 2 Hare and 10
									MIG-type in shop area; defenses: 2 AA batteries, 1 unoccupied; pole line leads [REDACTED] 25X1D
			40 40	52 53	USSR	G			Two communication centers, located approx 2 NM E of and 1/2 NM W of A/F, each with 1 revetted bldg and 6 other bldgs; approx 20 poles
			40	52	USSR	G			Electronics center; very large u/i screen-like structure in fenced area approx 1 NM W of A/F; 2 tall masts
			40	52	USSR	G			2 poss radar sites; 1 W of Krasnovodsk A/F and N of communications center, 1 on bluff E of petroleum refinery
			40	53	USSR	G			Strip mining
			40	53	USSR	G			2 bombing ranges
			40	53	USSR	G			U/i mining activity, consisting of rectangular pit near large pond from which a trench leads toward pit; looks abandoned;
									poss sulfur site

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WAC 8	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
		Time	Lat. N	Long. E					
[REDACTED]			40	52	USSR	G			Prob communications station; 2 towers beside a quonset-type bldg; poss power line from Krasnovodsk ends here; group of small bldgs nearby
			40	52	USSR	G			Poss communications station; 6 large and 2 small bldgs; 4 prob trucks
			40	52	USSR	G			Salt recovery; 2 large ponds with drains, narrow-gauge RR
			40	52	USSR	G			Dredged channel with "Y" mouth W of KRASNOVODSK (see WAC 339, camera 7, [REDACTED]) 25X1D
			40	52	USSR	G			2 large revetted bldgs [REDACTED] 25X1D
			40	52	USSR	G			1 secured area w/2 bldgs [REDACTED] 25X1D
			40	52	USSR	G			KIYANIY; lighthouse; salt workings; narrow-gauge RR; loading pier 4 miles S
			41	52	USSR	G			BEK-DASH; u/i poss research station; new construction; several power lines; electric power lines being erected
			41-34	52-32	USSR	G			Bek-Dash A/F; 7,000' x 110' black-top runway N-S; no a/c
			41	52	USSR	G			Lighthouse on island approx 8,000 yds off shore from Bek-Dash; 15 other bldgs on island

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WAC 8	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time		Lat. N	Long. E					
			41-45	52-30	USSR	G			Landing area; 6 bldgs, 5 tents; a/c: 1 Colt
			39	53	USSR	P			CHELEKEN; oil field w/approx 14 POL storage tanks, 8 oil tanks; poss pipeline; new construction and 1 pier; new city complex SE of CHELEKEN; mining activity
			39	53	USSR	P			DAGADZHTK; mining; approx 10 POL storage tanks; pipeline from CHELEKEN to DAGADZHTK
			39	53	USSR	G			Tower approx 50' high near E end of sand island SE of KIZYL-SU; prob navigation aid
			39	53	USSR	G			KIZYL-SU; fishing village, small boat harbor, and fish cannery; lighthouse; dredged channel to Krasnovodsk Bay (see
									25X1D
			39	53	USSR	G			POL port 3 NM E of KRASNOVODSK; 16 open reservoirs, approx 100 tanks of various sizes; RR sidings; dredged channel
									and turning basin with 3 piers, 1 with RR track; 400' tanker and 1 smaller ship alongside; reservoirs empty, poss repairs or u/c; bluff to N has three 8-
									position AA batteries, prob radar site with u/i device on tall mast, supporting bldgs
			39	53	USSR	G			Mys Krasnovodskiy; 13 bldgs in walled compound, incl lighthouse, lattice antenna, and poss radio station

TOP SECRET CHIESS

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MISSION COVERAGE SUMMARY

Date of Photography 10 September 1957 Report No. HTA-MCS-30-57Date of Report 24 September 1957 Mission No. 25X1A

WAC 8	Photo Ident.		Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Time	Lat. N	Long. E						
		39	53	USSR	G				KIZYL-SU; small boat-bldg and repair facilities; dredged channel through Mys Krasnovodskiy 8,000 yds SE of KIZYL-SU; poss
									fish cannery in village S of KIZYL-SU (see camera 7, 25X1D
		39	52	USSR	G				Dredging operation in channel through Krasnovodsk Peninsula 25X1D
		39	52	USSR	G				Two vessels, one with large deck cargo, in Krasnovodsk Bay
		39	52	USSR	G				KRASNOVODSK; military area W of city; fenced ammo storage area, HQ-type bldgs, 12 barrack-type bldgs and 98 small living quarters; motor
									pool with approx 66 vehicles; battery of 16 u/i AA weapons near shore, somewhat similar to installation in training area at CHIRCHIK, (see HTA-
									MCS-29-57, p6, exp 25X1D 8-gun AA w/4 positions 25X1D occupied; dredged channel to 2 small berths W of military area, with tracks to area
									and inland (see WAC 326, 25X1D
		39	52	USSR	G				Channel through Mys Krasnovodskiy; dredging operation underway with dredge and barge in channel; approx 5 barges, one dredge,
									and 3 tug boats E of mouth of channel (see camera 7, 25X1D

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MISSION COVERAGE SUMMARY

Date of Photography 10 September 1957 Report No. HTA-MCS-30-57

Date of Report 24 September 1957 **Mission No.** [REDACTED] 25X1A

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